MK PRODUCTS

Spool Guns

Orbital Equipment

Push-Pull Technology

Positioners

PRODUCT CATALOG

AN EXTREME RESPONSE FOR EXTREME CONDITIONS

SEE PAGES 9-10

PRODUCTS
www.mkproducts.com
sales@mkproducts.com
800-787-9707

A Letter to Our Customers

To Our Valued Customers,

Thank you for taking the time to look at our product offerings. MK Products is celebrating its **40th** year with an all new catalog and price book. We have combined all of our printed material into this one full product color catalog. This now means one source for all our product information and specifications. We hope you find this new approach easy to use and helpful.

We know that today you have many choices when it comes to welding equipment and brands. While MK sells under our own **Cobramatic®** brand, we also supply products to Lincoln Electric, Miller Electric, ESAB and others. We are very proud of these partnerships because they represent an acknowledgement of our expertise in the field of wire feed technology, known as Aluminum Push-Pull. It also keeps us in great company and surrounded by many talented people in the welding industry.

Our world-class **Cobra® Welding Systems** are sold direct and through distribution in more than 40 countries. For aluminum **GMAW** welding, the **Cobramatic®** name is unsurpassed. Our products and services are on display 24-hours a day, 7-days a week at our virtual showroom located at www.mkproducts.com. Our field sales force and distributors are always eager to demonstrate product capabilities and provide solutions for your specialty welding needs.

Cobramatic® Push-Pull Wire Feed cabinets accept our full line of welding guns to meet your toughest welding challenges. **Cobra® MX™**...an updated version of our original gooseneck gun is back and better than ever in a small, light-weight design that is perfect for welding aluminum. If you want to go even smaller, then the **Cobra SX™** is the smallest Push-Pull gooseneck gun in the world.

MK continues to offer the **CobraMAX™** and **Python®** gooseneck guns for high performance and power…plus the **Prince® XL** for versatile pistol grip performance. Check out our complete line of **Spool Guns** we have from the "Top of the line" full size **PXL Spool Gun** to the smallest **MiniSpool™ Gun**.

"Orbital Welding Made Easy™" best describes our line of patented GTAW fusion tube welding products. **CobraTig® 150 XM**...perfect for portable contractor use in the field. **Advanced Color Logic®**...patented on-screen visual interface is ideal for manufacturing work cell applications where tough quality assurance standards are maintained. MK **Orbital™** weldheads are available for many special applications. **MiniMicro™**...is our smallest weldhead for Ultra High Purity welding applications. **CopperHead®**...our most popular and economical for sanitary, mid-range tube sizes. **DiamondBack®**...is our largest for tubes and pipe sizes up to 6-inch nominal pipe size.

Whether you are a new customer or a loyal user, we value your business and we look forward to providing you with the best welding products and services available.

We're on a POWER TRIP

With the CobraMig® 400P you can be too...

The CobraMig® 400P is a specialized power supply made exclusively for Cobramatic® push-pull systems. We integrated the benefits of our Push-Pull Wire Feed technology with this superior Pulsed MIG welding power supply. Add an MK welding gun to this combo and you're geared up for ALL your welding projects. Complete your system today to qualify for bragging rights.

800-787-9707

MK PRODUCTS

www.mkproducts.com

Product Applications

Understanding the product icons

Push-Pull Wire Feed: Proven technology that provides smooth wire feeding for the GMA (MIG) Welding Process in gun lengths up to 50 feet.

Spool Guns: Includes a patented spool brake and wire leveling arm, multi-turn speed control knob, and simple "one-hand" wire spool loading.

Orbital Equipment: Orbital-GTA (TIG) Welding systems designed for autogenous welds in the sanitary, ultra-high purity and high-pressure welds.

Positioners: Precision table-top positioners for manual or automatic welding. Designed for rotating welding jobs, they can also be used for non-welding applications.

Accessories: A broad selection of contact tips, barrels, gas cups, as well as accessories for orbital equipment that further expand the flexibility and usability of the MK Products line.

Liquid Cooled: Liquid Cooled guns (also called Water Cooled guns) require a re-circulating radiator cooling system, because these guns use a smaller diameter copper cable compared to Air Cooled guns. Coolant flow rates should be a minimum of 1 qt/min @ 45 PSI.

Air Cooled: These welding guns use the ambient air and shielding gas to dissipate excess heat. They have lighter and more flexible gun cables and the system's simpler design makes them easier to operate, assemble, maintain and transport.

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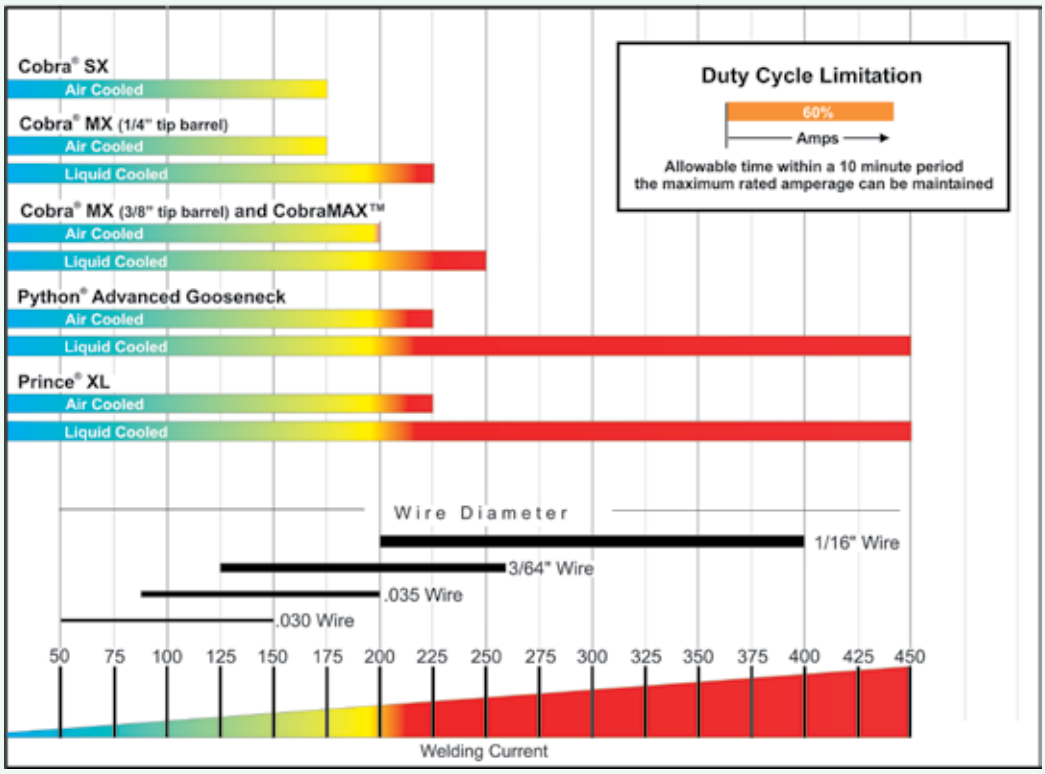
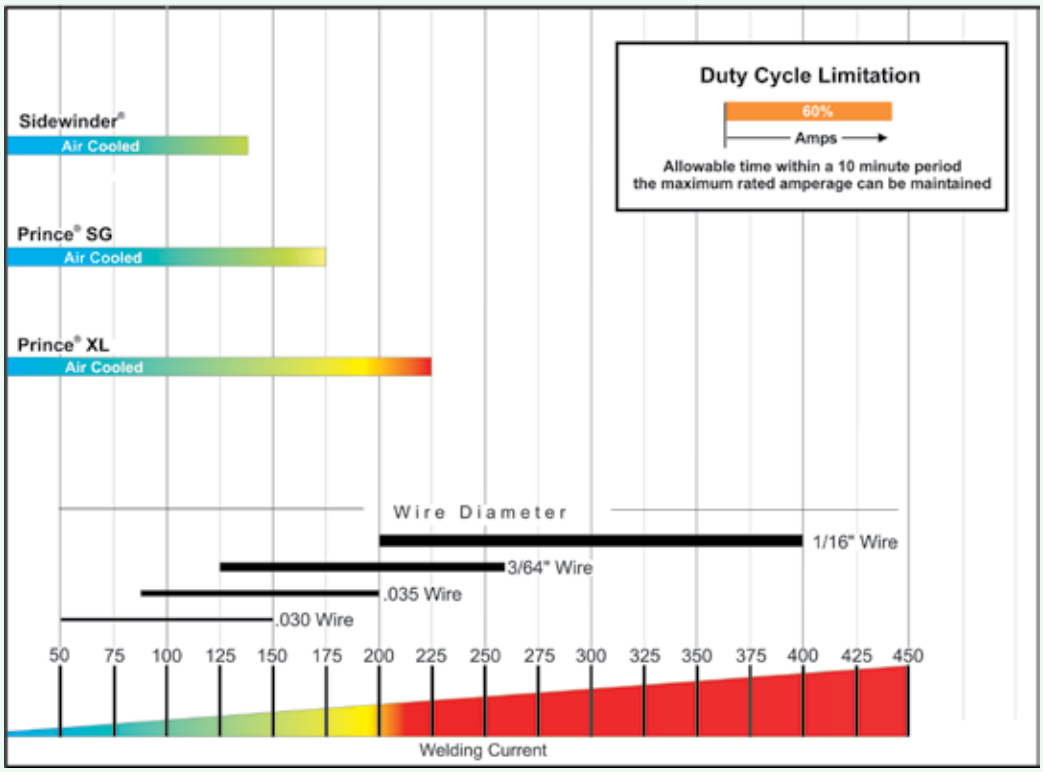
Celebrating 40 Years of Excellence...

Founded by Mike Kensrue in 1966, MK Products has always stood for superior quality and continuous advancement in technology. MK Products celebrates 40 years of success thanks to the tireless efforts of this pioneer in the welding industry.

Push-Pull Welding Gun Selector Guide



Spool Gun Gun Selector Guide



NOTE:
Wire Diameter and Current may vary depending on your particular Power Supply and Welding Voltage.
Wire Diameter and Current based on 5356 Aluminum Wire.

Push - Pull Technology

Cobramatic®	**8**
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CobraMAX™	**11**
Python®	**12**
Prince® XL	**13**

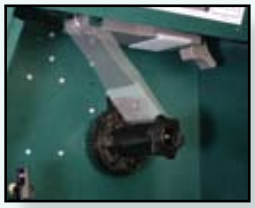
Cobramatic®

Push-Pull Wire Feed System

The **Cobramatic®** Push-Pull Wire Feeder...virtually no setup, no adjustment. Just load the wire, select the wire type and pull the trigger. Yes...it's that simple.

A newly designed and fully incorporated multi-layered, surface mount control board capable of external triggering and "Synergic" connection adaptable for remote wire feed speed control and external voltage control for many power supplies. Multi-colored LED sequence indicators illuminate the functions of trigger, gas, contactor and arc on. Integrated pre and post purge gas settings and adjustable solenoid timers are great for semi-automatic operations. Two wires are all that is needed for a digital display connection of wire feed speed or when using the Arc On relay for system sequencing.

This is the ideal system to connect to any remote device where you need that extra control and flexibility in the system interface for robotic and fixtures welding. The cabinet accommodates 12" wire spools and accepts all Cobramatic® push-pull guns.



Spring loaded wire retainer bar prevents wire slacking and overlapping.

One touch wire selector eliminates adjustments for wire tension.

SpoolTool™ cap keeps spool on the spindle and also sets the wire spool drag.

Optional Kits

- 8 ft interface cable for Miller, 14 pin, 115VAC (005-0316)
- 8 ft interface cable for Lincoln, 14 pin, 115VAC (005-0608)
- 25 ft interface cable for Miller, 14 pin, 115VAC (005-0658)
- 25 ft interface cable for Lincoln, 14 pin, 115VAC (005-0659)
- 8 ft interface cable for Thermal Arc, 19 pin, 115VAC (005-0630)
- 8 ft interface cable for ESAB 460/450 (005-0705)

Installation available upon request, $25.00 labor charge. Allow 2-3 days.

The Cobramatic® welding system offers quality and productivity that makes easy welding aluminum a reality.

When used with MK push-pull guns, the Cobramatic® wire feed system is the most reliable in the world.

Model Number	Power Input	Wire Spool Capacity	Wire Diameter Capacity	Boxed Dimensions	Boxed Weight
150-006	115 VAC 50/60 Hz 150 Watts Peak (1.3 amps)	12" Standard (Insulated or Non-insulated)	.030" - .045" solid and hard wire (0.8 mm - 1. 2 mm) .030" - 1/16" aluminum (0.8 mm - 1. 6 mm)	26 x 14 x 19 in (660 x 356 x 483 mm)	35 lb (15.9 kg)

Cobramatic Compatible Guns

		Cobra® SX	Cobra® MX (1/4" Tip)	Cobra® MX (3/8" Tip)	Python®	Prince® XL	CobraMAX™
15 ft (4.6 m)	Air Cooled	325-815	242-815	243-815	234-815	317-715	227-815
25 ft (7.6 m)		325-825	242-825	243-825	234-825	317-725	227-825
35 ft (10.7 m)		325-835*	242-835*	243-835*	234-835*	317-735*	227-835*
50 ft (15.2 m)		325-850	242-850	243-850	234-850	317-750	227-850
15 ft (4.6 m)	Liquid Cooled	N/A	237-815	238-815	235-815	318-715	228-815
25 ft (7.6 m)			237-825	238-825	235-825	318-725	228-825
35 ft (10.7 m)			237-835*	238-835*	235-835*	318-735*	228-835*
50 ft (15.2 m)			237-850	238-850	235-850	318-750	228-850

* Call factory for availability

Cobra® SX

Push-Pull Gooseneck Gun

With a striking resemblance to the original Cobra® gooseneck gun, the totally NEW **Cobra® SX** is available with all the original features you've come to expect. It's easy to use, easy to maintain, and utilizes the original Cobra® consumables. With less than 1 1/4" nominal diameter handle grip and less than 1 lb 12 oz in total gun weight, the Cobra® SX fits most hands, male or female. The ergonomic left/right handed speed control is perfect for every welder.

MK Products' **lightest, smallest push-pull** gooseneck - less than 2 lbs.

Feeds stainless and other hard wire materials.

Air cooled to reduce unnecessary cable weight and components.

Handles more heat without the need for liquid cooling - no need for coolant recirculators.

Original Cobra® **rear trigger location**.

Covered wire feed mechanism.

Thumb pressure wire release in the handle.

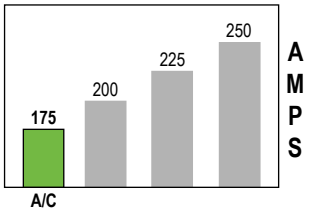
Quiet helical gear transmission.

Molded Cobra® design **high-temp** barrel insulator.

Perfect for **all aluminum** welding.

Rated Output determined by the gun having an Air Cooled **(A/C)** barrel.

Duty Cycle 60%



Comes Complete With

- #2 Welding power cable
- .035" (.9 mm) ID Contact tip
- #8 Gas cup, classic

Most Popular Accessories

- 5-piece Teflon liner package (931-0137)
- Insulated drive roll kit (005-064X)
- Drive roll installation/removal tool (931-0100)
- Spiral steel conduits for steel and cored wire (615-02XX)
- Spiral steel liner for tip extender (615-0256)
- Tip extender (621-0017)

See the accessories section for additional gas cups, barrels and contact tips.

Model Number	Rated Output	Wire Feed Speed	Wire Type and Diameter	Boxed Dimensions	Boxed Weight
325-815 15 ft (4.6 m) 325-825 25 ft (7.6 m) 325-835* 35 ft (10.7 m) 325-850 50 ft (15.2 m)	175 AMP @ 60%	800 IPM	.023" - .035" solid and hard wire (0.6 mm - 0.9 mm) .030" - 3/64" aluminum wire (0.8 mm - 1.6 mm)	15 ft and 25 ft: 26 x 12 x 5 in (660 x 305 x 127 mm) 35 and 50 ft: 28 x 14 x 6 in (711 x 356 x 152 mm)	15 ft 10.5 lb (4.8 kg) 25 ft 17 lb (7.8 kg) 35 ft 23.5 lb (10.7 kg) 50 ft 26.1 lb (11.8 kg)

Gun Lead Assembly Components

Length	Conduit	Gas Hose	Control Cable	Power Cable	Snake Skin
15 ft (4.6 m)	615-0601-15	552-0242-15	005-0690	843-0580-15	931-0110
25 ft (7.6 m)	615-0601-25	552-0242-25	005-0691	843-0580-25	931-0122
35 ft (10.7 m)	615-0601-35	552-0242-35	005-0740	843-0580-35	931-0132
50 ft (15.2 m)	615-0601-50	552-0242-50	005-0692	843-0580-50	931-0123

* Call factory for availability

Cobra® MX

Push-Pull Gooseneck Gun

The NEW **Cobra® MX** Patented Design is intended for all Cobra® gooseneck welders. Familiar with Cobra® Gold? Cobra® MX is a direct replacement with a gas valve in the gun and with all of MK Products' latest features and manufacturing techniques. Cobra® MX is manufactured in Air or Liquid Cooled models and is available with 1/4" or 3/8" consumables. Capable of most any aluminum welding job, Cobra® MX is in a class by itself. This gun features our famous push-pull gooseneck design and weighs only 2 lb 5 oz. The Patented Cobra® MX is ready to fit all your aluminum and hard wire welding needs.

shown with classic cup

Protected fingertip speed control in the handle.

Uses the original Cobra® **rear trigger location.**

Covered wire feed mechanism.

Covered lever wire release in the handle.

Molded Cobra® design **high-temp** barrel insulator.

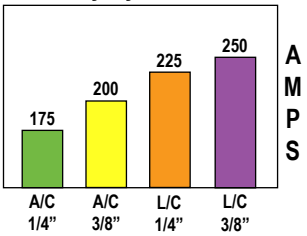
XtremeFlex™ power cable optional.

Perfect for **all aluminum** welding.

See the accessories section for additional gas cups, barrels and contact tips.

Rated Output determined by the gun having an Air Cooled **(A/C)** or Liquid Cooled **(L/C)** barrel with **1/4"** or **3/8"** tip.

Duty Cycle 60%



Most Popular Accessories

- 5-piece Teflon liner package (931-0137)
- Insulated drive roll kit (005-064X)
- Drive roll installation/removal tool (931-0100)
- XtremeFlex™ power cable (843-0580-XX)
- Spiral steel conduit for steel and cored wire (615-02XX)
- Liner, steel wire .030 - 1/16" (0.8 - 0.9mm) (615-0341)
- Spiral steel liner for tip extender (615-0248)
- Tip extender, 1/4" tip (621-0017)
- Tip extender, 3/8" tip (621-0423)

Model Number	Rated Output	Wire Feed Speed	Wire Type and Diameter	Boxed Dimensions	Boxed Weight
Air Cooled 1/4" Tip 242-815 15 ft (4.6 m) 242-825 25 ft (7.6 m) 242-835* 35 ft (10.7 m) 242-850 50 ft (15.2 m)	**Air Cooled** 175 AMP @ 60%	800 IPM	.023" - .045" solid and hard wire (0.6 mm - 1.2 mm) .030" - 1/16" aluminum and cored wire (0.8 mm - 1.6 mm)	15 ft and 25 ft: 26 x 12 x 5 in (660 x 305 x 127 mm) 35 ft and 50 ft: 28 x 14 x 6 in (711 x 356 x 152 mm)	**Air Cooled** 15 ft: 11.4 lb (5.1 kg) 25 ft: 17.2 lb (7.8 kg) 35 ft: 22.1 lb (10 kg) 50 ft: 29.6 lb (13.4 kg) **Liquid Cooled** 15 ft: 10.7 lb (4.8 kg) 25 ft: 15.5 lb (7 kg) 35 ft: 20.4 lb (9.2 kg) 50 ft: 27.1 lb (12.3 kg)
Air Cooled, 3/8" Tip 243-815 15 ft (4.6 m) 243-825 25 ft (7.6 m) 243-835* 35 ft (10.7 m) 243-850 50 ft (15.2 m)	**Air Cooled** 200 AMP @ 60%				
Liquid Cooled 1/4" Tip 237-815 15 ft (4.6 m) 237-825 25 ft (7.6 m) 237-835* 35 ft (10.7 m) 237-850 50 ft (15.2 m)	**Liquid Cooled** 225 AMP @ 60%				
Liquid Cooled 3/8" Tip 238-815 15 ft (4.6 m) 238-825 25 ft (7.6 m) 238-835* 35 ft (10.7 m) 238-850 50 ft (15.2 m)	**Liquid Cooled** 250 AMP @ 60%				

For improved gun performance, use with Cobra® Coolant (931-0060).

Gun Lead Assembly Components

Length	Conduit	Gas Hose	Control Cable	#2 Power Cable (A/C)	#6 Power Cable (L/C)	Snake Skin	Liquid Hose
15 ft (4.6 m)	615-0601-15	552-0242-15	005-0690	843-0630-15	843-0685-15	931-0110	552-0243-15
25 ft (7.6 m)	615-0601-25	552-0242-25	005-0691	843-0630-25	843-0685-25	931-0122	552-0243-25
35 ft (10.7 m)	615-0601-35	552-0242-35	005-0740	843-0630-35	843-0685-35	931-0132	552-0243-35
50 ft (15.2 m)	615-0601-50	552-0242-50	005-0692	843-0630-50	843-0685-50	931-0123	552-0243-50

* Call factory for availability

CobraMAX™

Push-Pull Gooseneck Gun

Designed much like the original "Gooseneck", the **CobraMAX™** has fully enclosed handles making it sturdy and protected. A 3¾ turn speed control pot is mounted on the gun for easy adjustment. The lightweight and well-balanced CobraMAX™ is available in either Air or Liquid Cooled models.

Feeds soft aluminum wire with **pinpoint accuracy** - true to the original MK Cobra® design concept.

Well suited for **both left & right-handed** welders.

Available in both **Liquid and Air Cooled** versions in lengths up to 50 feet.

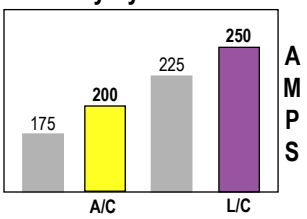
Suited for most **any welding application,** aluminum or hard wire.

Comes with speed control **pot cover** to protect wire speed settings.

For improved gun performance, use with Cobra® Coolant (931-0060). Designed for all Liquid Cooled Cobramatic® guns and Orbital equipment.

Rated Output determined by the gun having an Air Cooled **(A/C)** or Liquid Cooled **(L/C)** barrel.

Duty Cycle 60%



Comes Complete With

Air Cooled (A/C):

- #2 Welding power cable
- 60° Air Cooled barrel
- .060" (1.5 mm) ID Contact tip
- #8, 1/2" (12.7 mm) ID Gas cup

Liquid Cooled (L/C):

- #4 Liquid/power cable (Liquid Cooled)
- 60° Liquid cooled barrel
- .060" (1.5 mm) ID Contact tip
- #8, 1/2" (12.7 mm) ID Gas cup

Most Popular Accessories

- Insulated drive roll kit (005-064X)
- Drive roll installation/removal tool (931-0100)
- Spiral steel conduits for steel and cored wire (615-02XX)
- Tip extender (621-0423)

See the accessories section for additional gas cups, barrels and contact tips.

Model Number	Rated Output	Wire Feed Speed	Wire Type and Diameter	Boxed Dimensions	Boxed Weight
Air Cooled 227-815 15 ft (4.6 m) 227-825 25 ft (7.6 m) 227-835* 35 ft (10.7 m) 227-850 50 ft (15.2 m) **Liquid Cooled** 228-815 15 ft (4.6 m) 228-825 25 ft (7.6 m) 228-835* 35 ft (10.7 m) 228-850 50 ft (15.2 m)	**Air Cooled** 200 AMP @ 60% **Liquid Cooled** 250 AMP @ 60%	800 IPM	.023" - .045" solid and hard wire (0.6 mm - 1.2 mm) .030" - 1/16" aluminum and cored wire (0.8 mm - 1.6 mm)	15 ft and 25 ft: 26 x 12 x 5 in (660 x 305 x 127 mm) 35 ft and 50 ft: 28 x 14 x 6 in (711 x 356 x 152 mm)	**Air Cooled** 15 ft: 12.8 lb (5.8 kg) 25 ft: 18 lb (8.2 kg) 35 ft: 23.2 lb (10.5 kg) 50 ft: 28.8 lb (13.1 kg) **Liquid Cooled** 15 ft: 13.3 lb (6 kg) 25 ft: 19.4 lb (8.8 kg) 35 ft: 25.5 lb (11.6 kg) 50 ft: 34.5 lb (15.6 kg)

Gun Lead Assembly Components

Length	Conduit	Gas Hose	Control Cable	#2 Power Cable (A/C)	#4 Power Cable (L/C)	Snake Skin	Liquid Hose
15 ft (4.6 m)	615-0601-15	001-0537	005-0690	001-2527	001-2521	931-0110	001-0529
25 ft (7.6 m)	615-0601-25	001-0538	005-0691	001-2528	001-2524	931-0122	001-0530
35 ft (10.7 m)	615-0601-35	552-0181	005-0740	001-3812	843-0342	931-0132	552-0182
50 ft (15.2 m)	615-0601-50	001-0665	005-0692	001-1042	843-0338	931-0123	001-0667

* Call factory for availability

Python®

Advanced Gooseneck

Power and Performance is the best way to describe a gun so advanced that even the competition is on edge. Taking a lesson from both the Cobra® gooseneck and the Prince® XL, the **Python®** adds its own unique set of features with time proven design to bring together the most advanced welding gun available.

Convenient "forward trigger" location.

"Fingertip" wire speed adjustment.

EZ-Lock® barrel can easily rotate 360˚ to provide the perfect angle for all jobs.

Available in both **Liquid and Air Cooled** models.

Provides hours of **high speed continuous wire feed** without welder fatigue.

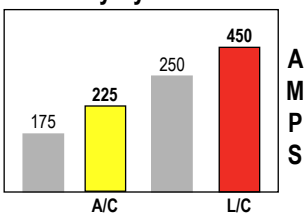
For **aluminum, stainless, steel and flux** cored wires.

See the accessories section for additional gas cups, barrels and contact tips.

For improved gun performance, use with Cobra® Coolant (931-0060). Designed for all Liquid Cooled Cobramatic® guns and Orbital equipment.

Rated Output determined by the gun having an Air Cooled **(A/C)** or Liquid Cooled **(L/C)** barrel.

Duty Cycle 60%



Comes Complete With

Air Cooled (A/C):
- #2 Welding power cable
- 60° Air Cooled barrel
- .060" (1.5 mm) ID Contact tip
- #10, 5/8" (15.8 mm) ID Gas Cup, A/C

Liquid Cooled (L/C):
- #6 Liquid/power cable
- 60° Liquid Cooled barrel
- .060" (1.5 mm) ID Contact tip
- #10, 5/8" (15.8 mm) ID Gas Cup, L/C

Most Popular Accessories

- Barrel insulator replacement kit (005-0696)
- 5-piece Teflon liner package (931-0137)
- Insulated drive roll kit (005-064X)
- Drive roll installation/removal tool (931-0100)
- Spiral steel conduit for steel and cored wire (621-02xx)
- Tip extender, A/C only (621-0424)

Model Number	Rated Output	Wire Feed Speed	Wire Type and Diameter	Boxed Dimensions	Boxed Weight
Air Cooled 234-815 15 ft (4.6 m) 234-825 25 ft (7.6 m) 234-835* 35 ft (10.7 m) 234-850 50 ft (15.2 m) **Liquid Cooled** 235-815 15 ft (4.6 m) 235-825 25 ft (7.6 m) 235-835* 35 ft (10.7 m) 235-850 50 ft (15.2 m)	**Air Cooled** 225 AMP @ 60% **Liquid Cooled** 450 AMP @ 60%	800 IPM	.023" - .045" solid and hard wire (0.6 mm - 1.2 mm) .030" - 1/16" aluminum and cored wire (0.8 mm - 1.6 mm)	15 ft and 25 ft: 26 x 12 x 5 in (660 x 305 x 127 mm) 35 ft and 50 ft: 28 x 14 x 6 in (711 x 356 x 152 mm)	**Air Cooled** 15 ft. 13.1 lb (5.9 kg) 25 ft: 19.3 lb (8.8 kg) 35 ft: 25.5 lb (11.6 kg) 50 ft: 29.9 lb (13.6 kg) **Liquid Cooled** 15 ft: 13.6 lb (6.2 kg) 25 ft: 19.7 lb (8.9 kg) 35 ft: 25.8 lb (11.7 kg) 50 ft: 34.8 lb (15.8 kg)

Gun Lead Assembly Components

Length	Conduit	Gas Hose	Control Cable	#2 Power Cable (A/C)	#6 Power Cable (L/C)	Snake Skin	Liquid Hose
15 ft (4.6 m)	615-0601-15	552-0242-15	005-0690	843-0630-15	843-0685-15	931-0110	552-0243-15
25 ft (7.6 m)	615-0601-25	552-0242-25	005-0691	843-0630-25	843-0685-25	931-0122	552-0243-25
35 ft (10.7 m)	615-0601-35	552-0242-35	005-0740	843-0630-35	843-0685-35	931-0132	552-0243-35
50 ft (15.2 m)	615-0601-50	552-0242-50	005-0692	843-0630-50	843-0685-50	931-0123	552-0243-50

* Call factory for availability

Prince® XL

Push-Pull Pistol Grip Gun

The **Prince® XL** brings together every aspect of precision and dependability. High heat and heavy duty applications will benefit from the Liquid Cooled and lightweight pistol grip design. Air and Liquid Cooled models are available with ratings from 225 amps Air Cooled to 450 amps Liquid Cooled, up to 60% duty cycle using argon gas. Aluminum wire diameters from .030" - 1/16" can be fed with wire speeds up to 800 IPM.

Ingenious 3¾ turn pot easily adjustable and hidden in the base of the handle for added protection.

EZ-Lock® barrel can easily rotate 360° to provide the perfect angle for all jobs when using curved barrels.

Patented **Liquid Cooling** right to the end of the gas cup.

Available with **straight or curved** barrels in 6", 12" and 18".

See the accessories section for additional gas cups, barrels and contact tips.

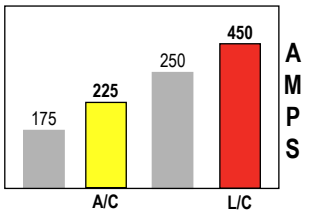
EZ-Lock® barrel

3¾ turn pot

Optional Liquid Cooled 45° barrel

Rated Output determined by the gun having an Air Cooled **(A/C)** or Liquid Cooled **(L/C)** barrel.

Duty Cycle 60%



Comes Complete With

Air Cooled (A/C):
- #2 Welding power cable
- 60° Air Cooled barrel
- .060" (1.5 mm) ID Contact tip
- #10, 5/8" (15.8 mm) ID Gas Cup, A/C

Liquid Cooled (L/C):
- #4 Liquid/power cable
- 60° Liquid Cooled barrel
- .060" (1.5 mm) ID Contact tip
- #10, 5/8" (15.8 mm) ID Gas Cup, L/C

Most Popular Accessories

- 5-piece Teflon liner package (931-0137)
- Insulated drive roll kit (005-064X)
- Drive roll installation/removal tool (931-0100)
- Tip extender, A/C only (621-0424)
- Gas valve removal tool (931-0105)
- Spiral steel conduit for steel and cored wire (621-02xx)

Model Number	Rated Output	Wire Feed Speed	Wire Type and Diameter	Boxed Dimensions	Boxed Weight
Air Cooled 317-715 15 ft (4.6 m) 317-725 25 ft (7.6 m) 317-735* 35 ft (10.7 m) 317-750 50 ft (15.2 m) **Liquid Cooled** 318-715 15 ft (4.6 m) 318-725 25 ft (7.6 m) 318-735* 35 ft (10.7 m) 318-750 50 ft (15.2 m)	**Air Cooled** 225 AMP @ 60% **Liquid Cooled** 450 AMP @ 60%	800 IPM	.023" - .045" solid and hard wire (0.6 mm - 1.2 mm) .030" - 1/16" aluminum and cored wire (0.8 mm - 1.6 mm)	15 ft and 25 ft: 26 x 12 x 5 in (660 x 305 x 127 mm) 35 ft and 50 ft: 28 x 14 x 6 in (711 x 356 x 152 mm)	**Air Cooled** 15 ft: 13 lb (5.9 kg) 25 ft: 18 lb (8.2 kg) 35 ft: 23 lb (10.4 kg) 50 ft: 33 lb (15 kg) **Liquid Cooled** 15 ft: 14 lb (6.3 kg) 25 ft: 20 lb (9.1 kg) 35 ft: 26 lb (11.8 kg) 50 ft: 35 lb (15.9 kg)

Gun Lead Assembly Components

Length	Conduit	Gas Hose	Control Cable	#2 Power Cable (A/C)	#4 Power Cable (L/C)	Snake Skin	Liquid Hose
15 ft (4.6 m)	615-0601-15	552-0242-15	005-0268	843-0630-15	843-0685-15	931-0110	552-0243-15
25 ft (7.6 m)	615-0601-25	552-0242-25	005-0269	843-0630-25	843-0685-25	931-0122	552-0243-25
35 ft (10.7 m)	615-0601-35	552-0242-35	005-0307	843-0630-35	843-0685-35	931-0132	552-0243-35
50 ft (15.2 m)	615-0601-50	552-0242-50	005-0272	843-0630-50	843-0685-50	931-0123	552-0243-50

* Call factory for availability

SUBMERGED IN YOUR WORK?

Don't forget to protect your MK Welding System by

KEEPING IT COOL

ALUMINUM PROTECTION

Formulated especially for use in systems where aluminum parts are used.
May also be used in any system where high frequency current is not present.
Contains additives to inhibit algae growth
and protection from freezing.

PART NO. 931-0060
1 GALLON (3.78 LITER)

Improved Gun Performance
For use with all
Liquid Cooled
Cobramatic Guns and
Orbital Welding Equipment

www.mkproducts.com
sales@mkproducts.com
800-787-9707

MK PRODUCTS

Spool Guns

Sidewinder® 16
Prince® SG 17
Prince® XL 18

Sidewinder®

MiniSpool™ Gun

Size actually does matter, especially when you're welding in a tight and confined location such as auto body repair. Select the **Sidewinder®** with 4-inch barrel for an ultra compact size and profile for limited access or confined welding areas. Reach is an important feature for special applications such as channel letter welding in the aluminum sign industry. Select the Sidewinder® with a 7-inch barrel length for an extended reach into deep channels with steep sidewalls and where other mechanical interference exists around the desired weld zone.

Intended **for applications with limited access**, weight requirements or the need for a small footprint.

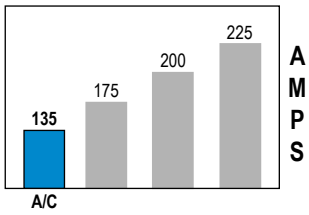
4" barrel option and 1/4 lb spool size for fitting into tight, restricted areas.

Extended reach **7" barrel option** for getting down into the deepest narrow channel letters.

Combine with SP control modules to **connect to small inverters** or portable engine-driven power sources.

Rated Output determined by the gun having an Air Cooled **(A/C)** barrel.

Duty Cycle 60%



Comes Complete With

- MiniSpool .030" diameter ER4043 welding wire.

Most Popular Accessories

- 4" short, straight barrel (003-2250)
- 7" long, straight barrel (003-2251)
- Drive roll installation/removal tool (931-0100)
- 5-piece liner package (931-0140)

See the accessories section for additional gas cups, barrels and contact tips.

Model Number	Rated Output	Wire Feed Speed	Wire Type and Diameter	Boxed Dimensions	Boxed Weight
15 ft 321-515 4" barrel 322-515 7" extended barrel **25 ft** 321-525 4" barrel 322-525 7" extended barrel	135 AMP @ 60%	600 IPM	.023", .030", .035" aluminum wire (0.6 ~ 0.9 mm) (MiniSpool™ 1/4 lb welding wire is required for use with this gun)	14 x 14 x 5 in (356 x 356 x 127 mm)	15 ft: 6.2 lb (2.8 kg) 25 ft: 8.2 lb (3.7 kg)

Gun Lead Assembly Components

Length	Gas Hose	Control Cable	Power Cable
15 ft (4.6 m)	552-0201	843-0555	843-0590
25 ft (7.6 m)	552-0202	843-0556	843-0591

MiniSpool™ Wire

The 1/4 lb MiniSpool™ is available in .030" and .035" wire size diameters with your choice of 4043 and 5356 aluminum alloys. Each MiniSpool™ can hold over 300 ft of aluminum welding wire. MiniSpool™ is available by the case (54) for even greater savings. Contact factory for details.

Wire Size	Alloy	Part Number
.030" (0.8 mm)	ER4043	909-030-4043
	ER5356	909-030-5356
.035" (0.9 mm)	ER4043	909-035-4043
	ER5356	909-035-5356

Spool Gun Adapters

The Sidewinder® requires 12VDC to power the gun motor. Below are several adapters that provide DC power and connect to most power supplies available in the industry. Two of these require input power of 115VAC while the other two controls receive power from the power source.

Description		VAC	Part Number
SP-1	All Source	115	005-0355
SP-L1	14-C/D Trigger	42	005-0356
SP-M1	14-A/B Trigger	24	005-0357
SP-4A	4-1/2 Trigger	115	005-0358

Prince® SG

Spool Gun

Prince® SG spool gun...when economy counts! Larger and more powerful than the Sidewinder® and utilizes a 1 lb wire spool for increased productivity, the Prince® SG is the most economical spool gun available anywhere.

Lighter than the competition and ready for any job, the Prince® SG is up to any challenge big or small, aluminum or steel. The Prince® SG includes genuine Cobra® consumables and more than 35 years of MK's spool gun expertise packaged into a ready to go, simple solution for all your spool gun needs.

Wire retainer **prevents** wire backlash.

Wire speed control in handle.

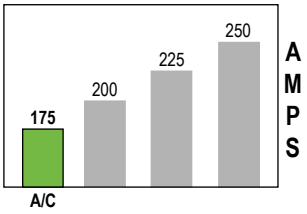
3¾ turn potentiometer provides easy control over a wide range of welding conditions.

Quick release cover removes in second for changing spool.

Uses 1/4" consumables.

Rated Output determined by the gun having an Air Cooled **(A/C)** barrel.

Duty Cycle 60%



Most Popular Accessories

- Gas valve installation and removal tool (931-0105)
- Drive roll installation and removal tool (931-0100)
- 5-piece liner package (931-0137)
- Heavy duty spool gun brake spring for hard wires (005-0682)

See the accessories section for additional gas cups, barrels and contact tips.

Model Number	Rated Output	Wire Feed Speed	Wire Diameter Capacity	Boxed Dimensions	Boxed Weight
416-725 25 ft (7.6 m) 416-750 50 ft (15.2 m)	175 AMP @ 60%	900 IPM	.023" to .045" solid and hard wire (0.6 ~ 1.2 mm) .023" to 3/64" aluminum wire (0.6 ~ 1.2 mm)	25 ft: 26 x 12 x 5 in (660 x 305 x 127 mm) 50 ft: 8 x 14 x 6 in (711 x 356 x 152 mm)	25 ft: 17 lb (7.7 kg) 50 ft: 29 lb (13.2 kg)

Gun Lead Assembly Components

Length	Gas Hose	Control Cable	Power Cable
25 ft (4.6 m)	552-0244-25	005-0269	843-0650-25
50 ft (7.6 m)	552-0244-50	005-0272	843-0650-50

Spool Gun Adapter Selectors

005-0264
Generic, 24VAC
All Source

005-0676
Lincoln, 42VAC
14-Pin C/D Trigger

005-0261
Miller, 24VAC
14-Pin A/B Trigger

001-3066 MK200 Contactor Box

001-3062 WC-1 Spool Gun Control

005-0617
Panasonic Gunslinger 260

005-0206
ESAB MigMaster 250

005-0689
ThermalArc Fabricator

Prince® XL

Spool Gun

The most versatile pistol grip welding gun in the world, the **Prince® XL** spool gun provides 1 or 2 lb wire spool flexibility and a pistol grip design weighing less than 3 lbs.

Aluminum wire diameters from .030" - 1/16" can be fed with wire speeds up to 900 IPM. Connect the Prince® XL spool gun to any CV or CC power supply using the WC-1 Control or one of our simple interfaces to most any manufacturer's power supply.

EZ-Lock® 360° rotating barrels in 6",12", and 18", straight or curved.

Uses **Python® gun consumables** and 1 or 2 lb spools.

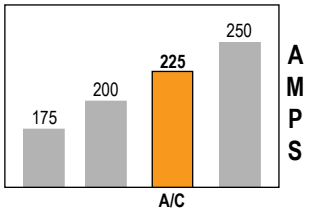
Can be **easily converted to a push pull gun** for use with a 12" spool in the Cobramatic® cabinet.

3¾ turn potentiometer provides easy control over a wide range of welding conditions.

See the accessories section for additional gas cups, barrels and contact tips.

Rated Output determined by the gun having an Air Cooled **(A/C)** barrel.

Duty Cycle 60%



Comes Complete With

- #2 Welding power cable
- .060" (1.5 mm) ID Contact tip
- #10 Finned gas cup

Most Popular Accessories

- Insulated drive roll kit (005-064X)
- Barrel insulator replacement kit (005-0696)
- Heavy duty spool gun brake spring for hard wires (005-0682)
- Spiral steel barrel liner kit (615-0XXX)
- Tip extender (621-0424)

Model Number	Rated Output	Wire Feed Speed	Wire Diameter Capacity	Boxed Dimensions	Boxed Weight
316-725 25 ft 316-750 50 ft	255 AMP @ 60%	900 IPM	.023" to .045" solid and hard wire (.06 ~ 1.2 mm) .030" to 1/16" aluminum wire (.08 ~ 1.6 mm)	25 ft: 26 x 12 x 5 in (660 x 305 x 12 7 mm) 50 ft: 28 x 14 x 6 in (711 x 356 x 152 mm)	25 ft: 17 lb (7.7 kg) 50 ft: 29 lb (13.2 kg)

Gun Lead Assembly Components

Length	Gas Hose	Control Cable	Power Cable	Snake Skin
25 ft (4.6 m)	552-0202	005-0269	843-0484	931-0122
50 ft (7.6 m)	552-0203	005-0272	843-0485	931-0123

Spool Gun Adapter Selectors

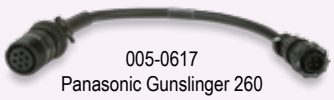
005-0264
Generic, 24VAC
All Source

005-0676
Lincoln, 42VAC
14-Pin C/D Trigger

005-0261
Miller, 24VAC
14-Pin A/B Trigger

001-3066 MK200 Contactor Box

001-3062 WC-1 Spool Gun Control



005-0617
Panasonic Gunslinger 260

005-0206
ESAB MigMaster 250

005-0689
ThermalArc Fabricator

Orbital Equipment

CobraTig®	**20**
CobraCooler®	**20**
Advanced Color Logic®	**21**
Weldheads	**22**

CobraTig® 150 XM

Portable GTAW Orbital Tube Welder

The **CobraTig® 150 XM** is a portable, lightweight orbital welding power source with a digital controller that is the perfect solution for construction or rugged environments. User friendly LCD screen and simple menus guide users through powerful weld programming using SmartArc® logic, real-time data monitoring, plus a built-in thermal printer for weld data. Packaged for rugged construction environments or manufacturing work-cells.

Provides **automatic control** for repeatability, verification and traceability.

SmartArc® software **develops a near ideal weld procedure** with Automatic Program Generator.

Capable of going down to **0.1 amps with** MicroTig™ technology.

High Voltage Pulse automatic arc starting from **0.5 to 25 amps**.

SmartArc® control **provides flexibility** for orbital and manual welding.

Shipped in a **sealed rugged case with wheels** for easy mobility.

Standard with **extended memory** (XM).

Comes Complete With

- 150 amp inverter power supply with MicroTig™ Technology
- SmartArc® Digital Controller with data monitoring and logging
- High speed thermal printer
- Argon regulator/flow meter
- Gas hose with fittings
- Shipping and storage case

Most Popular Accessories

- Strip Chart Printer - Factory install only (005-0354)
- CobraTig® Communication Null modem cable (005-0323)
- Orbital power supply calibration kit (005-0698)
- Paper roll for CobraTig® printer - box of 5 (921-0170)

MicroTig™ Manual Weld kit includes gas-cooled hand TIG torch, variable foot control, ground cable with clamp and carry case.

Model Number	Line Power (+\- 10%) for both Packages	Boxed Dimensions	Boxed Weight
254-151	100VAC 50/60 Hz Single Phase, 15A 120VAC 50/60 Hz Single Phase, 15A 208VAC 50/60 Hz Single or Three Phase, 30A 230VAC 50-60Hz Single or Three Phase, 30A	34 x 11 x 21 in (864 x 279 x 533 mm)	77 lb (34.9 kg)

CobraCooler®

Portable Coolant Recirculator

This recirculator is a separate stand-alone unit that conveniently attaches mechanically to an MK Products CobraTig® 150 XM welding power source. The cooler provides recirculation of water to an attached weldhead that has provisions for Liquid Cooling.

Mechanically integrated assembly latches tightly under CobraTig® 150 XM power supply.

Provides liquid cooling for any MK Liquid Cooled weldhead.

Includes high impact **shipping case**.

Model Number
250-152
Boxed Dimensions
26 x 8 x 16 in (660 x 203 x 406 mm)
Boxed Weight
33 lb (15 kg)

Cobra Coolant® (931-0060) required with the CobraCooler®

Advanced Color Logic®

GTAW Orbital Power Supply / Controller

The patented **Advanced Color Logic®** delivers controlled welding current needed to perform high-integrity orbital tube welds and is the perfect package for manufacturing environments.

Exclusive Auto Program Generator for easy weld setup and retrieval of saved procedures. Repeatability and precision, combined with real time data monitoring, traceability, and verification conform to most inspection and quality requirements.

Pentium® class processor for the fastest real time on-screen visual display of all welding parameters. Playback entire weld graphically for analysis or download to offline computer.

Digital control and real-time graphics provide ease of operation and on-screen reference.

Make your next weld while viewing the process in real time with **17" LCD flat screen monitor**.

Patented **updated software** now delivers more information, faster.

USB equipped for moving, storing and transferring weld data and procedures.

Programming is easy: just enter the tube diameter and wall thickness.

Weld data monitoring is provided in text, graphic on-screen displays or exported to a spreadsheet file.

Pentium® registered trademark of Intel®

Comes Complete With

- 200 AMP inverter power supply
- Digital controller
- 17" flat screen color monitor
- Keyboard
- Handheld control and cable
- Input power cord
- Start-up kit
- Printer

Input Power Cords:

(choose one to complete your order)

- 120 VAC - Single phase power cord (843-0600)
- 208/240 VAC - Single phase power cord (843-0602)
- 208/240 VAC - Three phase power cord (843-0603)
- 220 VAC - European power cord (843-0601)
- 120 VAC 30A - UL listed power cord (843-0613)

Most Popular Accessories

- CobraCooler coolant recirculator (250-152)
- 480PRI/240VAC(SEC), Three Phase, Step Down Transformer (001-1230)
- Strip chart modification - factory install only (005-0345)
- Orbital power supply calibration kit (005-0698)

Model Number	Compatible Weldheads		Boxed Dimensions	Boxed Weight
254-202	MiniMicro™ CopperHead® series DiamondBack®	4000 5001-5003 5006	40 x 40 x 30 in 1016 x 1016 x 762 mm (palletized)	215 lb (97.5 kg) (palletized)

Sanitary, Short Ferrule Collets

Easy to use and cost effective collets to simplify your orbital welding applications. MK strives to make your job easier by providing off-the-shelf solutions to life's tough challenges. Collets designed for precise tungsten placement offer enhanced repeatability for each weld.

High-Pressure Weld Tooling

Custom machined collets combined with locating and threaded weld fitting mandrels position the electrode right where you want it. MK's ability to create standard and custom tooling can help make the difference in your critical welding applications, including aerospace.

Sanitary • High-Pressure • Ultra High-Purity

Miniature weld fitting collets, tool mounting side plates and clamping jaws are made of nickel plated tool steel and each hardened for wear and toughness. These are just some of the standards that you have come to expect from MK, the leader in orbital welding systems.

GTAW Weldheads

CopperHeads® and DiamondBack®

Whether it's for bench or portable applications, MK Products provides a solution when it comes to orbital welding systems. As our most cost effective and rugged in-place orbital weldhead, the **CopperHead®** series is an ideal cost saver for sanitary and high pressure tube systems. All CopperHeads® are Liquid Cooled with fingertip controls in the weldhead handle and come ready to plug into model 254-151 CobraTig® 150 XM and model 254-202 Advanced Color Logic® power sources.

The **DiamondBack®** is our largest in-place orbital weldhead. Heavy duty and versatile, the DiamondBack® has a narrow profile and is perfect for process piping and weld fitting applications found in food & beverage, dairy and other sanitary process piping installations.

DiamondBack®

CopperHeads®

Perfect for sanitary and high pressure tube and pipe jobs.

Weld fitting **collets, mandrels and special tooling** available.

CopperHead® offers **versatility and high-output** production rates.

Liquid Cooled, narrow profile CopperHeads® **ideal for awkward welds** with limited access.

DiamondBack® great for high-pressure aerospace applications.

Comes Complete With

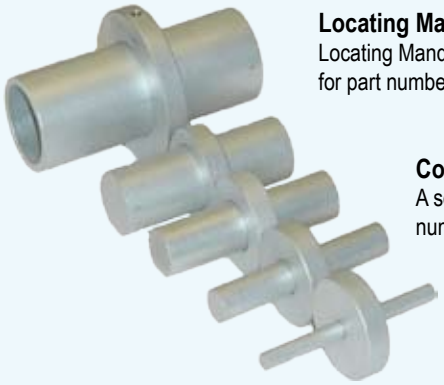
- Weldhead
- Owner's manual
- Tool kit
- Shipping and storage case

Most Popular Accessories

- Bench mount kit for 4000 ~ 5003 weldheads (005-0634)
- Bench mount kit for 5006 weldhead (005-0680)
- 25 ft weldhead cable extension (005-0635)
- 50 ft weldhead cable extension (005-0635-50)
- Tool kit for 5001 ~ 5003 weldheads (005-0214)

*The **MiniMicro™** weldhead is an "Ultra-Pure" weldhead ideal for welding tubes and fittings with controlled surface finishes and electropolished to meet ultra-pure system requirements.*

Model	Description	Diameter Range	Cooling Requirements	Boxed Dimensions	Boxed Weight
4000	MiniMicro™	1/8" ~ 1/2" O.D.	Yes	19 x 8 x 16 in (483 x 204 x 406 mm)	16 lb (7.3 kg)
5001	CopperHead® I	1/8" ~ 1" O.D.	Yes	18 x 9 x 21 in (457 x 204 x 406 mm)	29 lb (13.2 kg)
5002	CopperHead® II	1/4"~ 2" O.D.	Yes	18 x 9 x 21 in (457 x 204 x 406 mm)	30 lb (13.6 kg)
5003	CopperHead® III	1/2" ~ 3" O.D.	Yes	18 x 9 x 21 in (457 x 204 x 406 mm)	31 lb (14.1 kg)
5006	DiamondBack®	2" O.D. ~ 6" NPS	No	34 x 11 x 21 in (864 x 279 x 533 mm)	68 lb (30.8 kg)



Locating Mandrels

Locating Mandrels are used for precise and repeatable tube and welding fitting positioning and alignment. See price book for part numbers.

Collets, Flush and Extended

A set of collets is defined as top and bottom halves for each side of the weldhead. See price book for part numbers. Typically, 2 sets are required per each weldhead.

Tungsten, Tube and Pipe

2% Ceriated electrodes, pre-ground and cut to length, 18° included angle, .015" flat tip, .040" or 1/16" diameter. See price book for part numbers. 10 pieces per package.

Positioners

AirCrafter™ T-25 24

AirCrafter™ T-200 24

AirCrafter™
Rotary Turntables

The **T-25** turntable is suitable for welding small intricate fabrications, tube flanges and small aircraft-type parts as well as rotating lightweight non-welding items. The **T-200** turntable is recommended for medium to large weld sub-assemblies. Complete with ID purge through the center shaft, the T-200 is ideal for tube and pipe up to the rated load capacities.

AirCrafter™ T-200 shown with optional 10" tabletop.

Appropriate for **GMAW or GTAW** welding processes.

High frequency protected.

Auto-Sense™ foot control configures the unit without changing jumper settings on a T-200.

15° Quick-Tilt™ table angle control.

Large **digital LED display** of speed on T-200.

Solid state speed controls.

25 lb and 200 lb load capacities.

Comes Complete With

AirCrafter™ T-25:
- Variable foot control
- 5" diameter turntable top
- 110VAC power cord

AirCrafter™ T-200:
- 110VAC power cord

Most Popular Accessories

AirCrafter™ T-200:
- Self-centering 3-Jaw Chuck (005-0040)
- 10" turntable kit (005-0048)
- Standard foot switch (005-0628)
- Heavy duty foot switch with variable speed control (005-0627)

Model Number	Offset Load Capacity Horizontal - 0°	Offset Load Capacity Vertical - 90°	Table Diameter	Balanced Load Capacity Horizontal	Balanced Load Capacity Vertical	Table Tilt	RPM Range	Boxed Dimensions	Weight Dimensions
AirCrafter™ T-25: 127-001	16 lb with Center of Gravity 1.78" off center	10 lb with Center of Gravity 2.5" from plate	5"	25 lb	10 lb	0 ~ 90°	0.25 ~ 10	14 x 14 x 5 in (356 x 356 x 127 mm)	16 lbs (7.3 kg) with optional turntable
AirCrafter ™ T-200: 127-005	132 lb with Center of Gravity 3.75" off center	50 lb with Center of Gravity 5" from plate	10" optional	200 lb	50 lb	0 ~ 105°	Low: 0.2 ~ 3.0 High: 1.0 ~ 10	18 x 16 x 14 in (457 x 406 x 356 mm)	48 lbs (21.8 kg)

Optional Accessories for AirCrafter™ T-200

Self-Centering 3-Jaw Chuck
005-0040

Includes two sets of manually adjustable jaws from 7/8" - 3 3/4" internal and 1/8" - 4" external clamping.

Standard Foot Switch
005-0628

10" Turntable Kit
005-0677

Heavy Duty Foot Switch with variable speed control
005-0627

Accessories

Barrels	**26**
Contact Tips	**27**
Gas Cups	**28**
Orbital	**29**
Cobramatic® Connectivity	**30**

Barrels

6” Water Cooled, Straight
003-2315

12” Water Cooled, 45°
003-2319

12” Water Cooled, Straight
003-2318

6” Water Cooled, 45°
003-2316

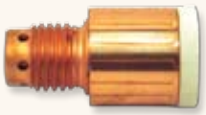
18” Water Cooled, 45°
003-2321

18” Water Cooled, Straight
003-2320

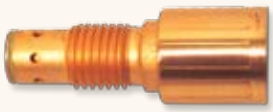
6” Water Cooled, 60°
003-2317

Teflon Liner (Sold in quantities of 5)
Reference table below for part numbers.

Tip Extender, Classic Cup, 1/4” Tip
(Stackable)
621-0017



Tip Extender, MAX Cup, 3/8” Tip
(Stackable)
621-0423



Prince®/Python® Tip Extender
(Air/Water Barrels Only - Non-Stackable)
621-0424

Part Number	Description
005-0696	Barrel Insulation Kit with Tapered Lock Nut (Air/Liquid Only)
621-0017	Tip Extender, Classic Cup, 1/4” Tip (Stackable)
621-0423	Tip Extender, MAX Cup, 3/8” Tip (Stackable)
621-0424	Tip Extender, Prince®/Python® Air/Liquid Barrels Only (Non-Stackable)
931-0137	5-piece Teflon Liner Package (Prince® XL, Python®, CobraMAX™, Prince® SG, Cobra® SX & MX)
931-0140	5-piece Teflon Liner Package, (Sidewinder®)

Part Number	Length	Air Cooled/Water Cooled	Degree	Compatible Guns
003-2250	4”	Air	Straight	Sidewinder®
003-2251	7”	Air	Straight	Sidewinder®
003-2147	6”	Air/Water	60°	Python®, Prince® XL
003-2272	6”	Air	60°	Python®
003-2315	6”	Water	Straight	Python®, Prince® XL
003-2316	6”	Water	45°	Python®, Prince® XL
003-2317	6”	Water	60°	Python®, Prince® XL
003-2318	12”	Water	Straight	Python®, Prince® XL
003-2156	12”	Air/Water	Straight	Python®, Prince® XL
003-2158	12”	Air/Water	45°	Python®, Prince® XL
003-2319	12”	Water	45°	Python®, Prince® XL
003-2157	18”	Air/Water	Straight	Python®, Prince® XL
003-2320	18”	Water	Straight	Python®, Prince® XL
003-2159	18”	Air/Water	45°	Python®, Prince® XL
003-2321	18”	Water	45°	Python®, Prince® XL

Contact Tips

1/4" Diameter - Sidewinder®, Prince® SG, Cobra® SX, Cobra® MX

Wire Size	Tip ID	Arc	Tip Length	Qty	Part Number
.023" (0.6 mm)	.031" (0.8 mm)	Spray	1.50" (38.1 mm)	25	621-0057-25
.023"(0.6 mm)	.031" (0.8mm)	Short	1.75"(44.5 mm)	25	621-0328-25
.030" (0.8 mm)	.037" (0.9 mm)	Spray	1.50" (38.1 mm)	25	621-0325-25
.030" (0.8 mm)	.037" (0.9 mm)	Short	1.75" (44.5 mm)	25	621-0326-25
.030" (0.8 mm)	.040 (1.0 mm)	Spray	1.50" (38.1 mm)	25	621-0076-25
.035" (0.9 mm)	.045 (1.1 mm)	Spray	1.50" (38.1 mm)	25	621-0001-25
				250	621-0001-250
				500	621-0001-500
.035" (0.9 mm)	.040" (1.0 mm)	Short	1.75" (44.5 mm)	25	621-0077-25
.035" (0.9 mm)	.045" (1.1 mm)	Short	1.75" (44.5 mm)	25	621-0002-25
3/64" (1.2 mm)	.054" (1.37 mm)	Spray	1.50" (38.1 mm)	25	621-0327-25
3/64" (1.2 mm)	.060" (1.5 mm)	Spray	1.50" (38.1 mm)	25	621-0003-25
				250	621-0003-250
				500	621-0003-500
1/16" (1.6 mm)	.074" (1.9 mm)	Spray	1.50" (38.1 mm)	25	621-0075-25
1/16"(1.6mm)	.085"(2.1mm)	Spray	1.50"(38.1mm)	25	621-0153-25

3/8" Diameter - CobraMAX™, Python®, Prince® XL, Cobra® MX

Wire Size	Tip ID	Arc	Tip Length	Qty	Part Number
.030" (0.8 mm)	.040" (1.0 mm)	Spray	1.57" (39.9 mm)	25	621-0390-25
.030" (0.8 mm)	.040" (1.0 mm)	Short	1.82" (46.2 mm)	25	621-0396-25
.035" (0.9 mm)	.045" (1.1 mm)	Spray	1.57" (39.9 mm)	25	621-0391-25
				250	621-0391-250
				500	621-0391-500
.035" (0.9 mm)	.045" (1.1 mm)	Short	1.82" (46.2 mm)	25	621-0397-25
.045" (1.2 mm)	.054" (1.37 mm)	Short	1.82" (46.2 mm)	25	621-0398-25
3/64" (1.2 mm)	.054" (1.37 mm)	Spray	1.57" (39.9 mm)	25	621-0392-25
				250	621-0392-250
				500	621-0392-500
3/64" (1.2 mm)	.060" (1.5 mm)	Spray	1.57" (39.9 mm)	25	621-0393-25
				250	621-0393-250
				500	621-0393-500
1/16" (1.6 mm)	.074" (1.9 mm)	Spray	1.57" (39.9 mm)	25	621-0394-25
1/16" (1.6 mm)	.085" (2.16 mm)	Spray	1.57" (39.9 mm)	25	621-0395-25

3/8" Diameter Spring Loaded - CobraMAX™, Python®, Prince® XL, Cobra® MX

Wire Size	Tip ID	Arc	Tip Length	Qty	Part Number
.030" (0.8 mm)	.040" (1 mm)	Spray	1.57" (39.9 mm)	EA	621-0331
.035" (0.9 mm)	.045" (1.1 mm)	Spray	1.57" (39.9 mm)	EA	621-0332
3/64" 5356 (1.2 mm)	.054" (1.4 mm)	Spray	1.57" (39.9 mm)	EA	621-0333
3/64" 4043 (1.2 mm)	.060" (1.5 mm)	Spray	1.57" (39.9 mm)	EA	621-0334
1/16" (1.6 mm)	.074" (1.9 mm)	Spray	1.57" (39.9 mm)	EA	621-0335

Gas Cups

Classic Cup

Cup No.	ID	Compatible Guns	Part Number
6	3/8" (9.5 mm)	Cobra® MX (242, 237) Cobra® SX Prince® SG	001-0137
8	1/2" (12.7 mm)		001-0138
10	5/8" (15.8 mm)		001-0139

Quick Cup

Cup No.	ID	Compatible Guns	Part Number
6	3/8" (9.5 mm)	Sidewinder®	621-0440
7	7/16" (11.1 mm)		621-0441
8	1/2" (12.7 mm)		621-0442
10	5/8" (15.9 mm)		621-0443

MAX Cup

Cup No.	ID	Compatible Guns	Part Number
6	3/8" (9.5 mm)	Cobra® MX (243, 238) CobraMAX™	621-0420
8	1/2" (12.7 mm)		621-0421
10	5/8" (15.9 mm)		621-0422

Finned, Heavy Duty

Cup No.	ID	Compatible Guns	Part Number
6	3/8" (9.5 mm)	Python® Prince® XL Air/Liquid	621-0248
8	1/2" (12.7 mm)		621-0249
10	5/8" (15.9 mm)		621-0250
10 HD	5/8" (15.9 mm)		621-0251
12 HD	3/4" (19.05 mm)		621-0252

Liquid Cooled Cup

Gas Cups for Full Liquid Cooled Barrels			
Cup No.	ID	Air Cooled/Liquid Cooled	Part Number
6	3/8" (9.5 mm)	Air Cooled*	621-0170
8	1/2" (12.7 mm)	Air Cooled*	621-0159
10	5/8" (15.9 mm)	Air Cooled*	621-0160
10	5/8" (15.9 mm)	Liquid Cooled, 400 amps	621-0065

* Must use Liquid Cooled cup adapter and chrome nut, P/N 621-0101 & 449-0193

Air Cooled Cup

Chrome Nut (449-0193)

Liquid Cooled Cup Adapter (621-0101)

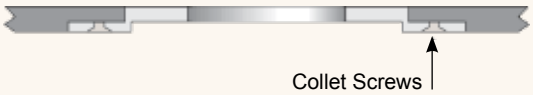
Orbital

Weld fitting collets, mandrels and special tooling are available for holding and aligning your favorite weld fittings: short ferrule, tank spud, threaded male and female fittings. In most cases, you just provide the name of your weld fitting manufacturer with their part number, and MK Products will do the rest. Consult the MK Products price book for part numbers and pricing.

Collets, Flush and Extended
A set of collets for models 5001~5003 are defined as top and bottom halves for each side of the weldhead. Typically, 2 sets are required per weldhead. A set of collets for models 4000 and 5006 are defined as 3 each 120° segments for each side of the weldhead. Typically, 2 sets are required per weldhead. Consult price book for details and part numbers.

Flush Collets

MiniMicro™



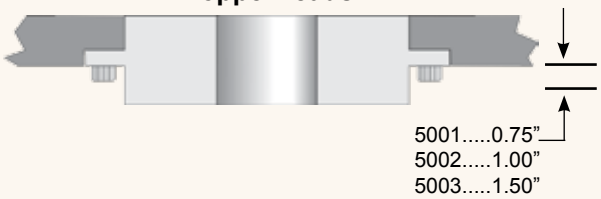
CopperHeads®

DiamondBack™

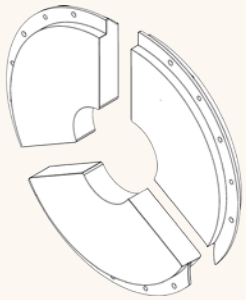
Extended Collets

MiniMicro™

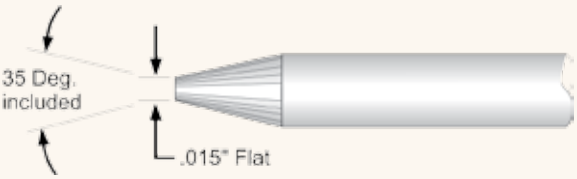
CopperHeads®



DiamondBack™



Tungsten, Tube and Pipe
2% Ceriated electrodes, pre-ground and cut to length, 18° included angle, .015” flat tip, .040”, 1/16” or 3/32” diameter, 10 pieces per package. Consult price book for details and part numbers.



Locating Mandrels
Locating mandrels are used for precise and repeatable tube and weld fitting positioning and alignment. Consult price book for details and part numbers.

Cobramatic® Connectivity

Cobra® SX

Cobra® MX

Python®

Prince® XL

Cobramatic®
Push-Pull Wire Feeder

V350 PRO
120VAC Output
14 Pin

XMT 304
120VAC Output
14 Pin

Ultra Flex™ 350
120VAC Output
19 & 14 Pin

SVI 450i
120VAC Output
19 Pin

Power Supplies

As part of our ongoing association with Fronius and Lincoln Electric, MK Products is pleased to offer these plus the new CobraMig® 400P power supply for easy but precise welding. By combining push-pull wire feed technology and a pulse power supply, you ensure a top of the line quality weld every time. Call today and find out about our exclusive package deals!

NEW!

"Intuitively Synergic…" The CobraMig® 400P with any MK gun on the Cobramatic, Model 150-006

The CobraMig® 400P is a specialized power supply made exclusively for MK Products. The CobraMig® 400P integrates the benefits of the Cobramatic® push-pull wire feed technology with this superior Pulsed MIG welding power supply. Available in package pricing or separate - add any MK Cobramatic® gun to complete your system.

Weighing in at an easily portable 59 lbs, the Fronius TransPulsSynergic (MK part number 154-101) makes pulsed-arc welding easy! And it still finds room for an industry standard wire spool and the tried and tested 4-roll wire feed drive. All of which ideally suits it for use in the field. 270 amps of power, provides the highest precision, exact repeatability and unsurpassed welding properties - anytime, anywhere.

Euro styled connections on the Python® and Prince® XL are ideal for the TPS-2700, 3200 or 4000

Quick and easy connections make the Cobramatic® and V350 PRO a great combination

Lincoln Electric's V350-PRO (MK part number K1728-7) is a single or three phase power supply and includes built-in multi-process weld schedules for easy operation. Advanced inverter technology gives you a very portable power source that can be carried to just about any MIG welding job.

An easily connectable interface cable between the Cobramatic® and the V350 PRO gives this combination the ease of changing guns to fit your needs.

PC Board Exchange

Get your equipment back in operation quickly and economically using the PC Board Exchange Program. Listed assemblies may be exchanged for factory rebuilt parts at substantial savings provided the returned part is in repairable condition. Equipment manuals are available online at www.mkproducts.com which will aid in fault isolation to the replaceable assembly level. Please contact MK Products Customer Support for instructions on how to participate in the PC Board Exchange Program.

Important Note:
PC Boards are not eligible for refunds or return credit.

PRODUCT	DESCRIPTION	PART NUMBER
Cobra® II	Front Panel Board	006-1688
	Main Board	006-1977
Cobramatic® 42V	Front Panel Board	006-2001
Cobramatic® 115V	Front Panel Board	006-2024
CobraTig®	Arc Start Board	006-1948
	Output Filter Board	006-1960
	Power Supply Control Board	006-1936
	Printer Control Board	006-2000
	Tig Control Board	006-1949
CV260	Power Supply Control Board	006-1741
PA-G1/PA-M1	Main Board	006-1975
PosiTurn™ 4	Front Panel Board	006-1268
	Front Panel with Ext. Fuse Board	006-2122
	Speed Control Board	006-1267
AirCrafter™ T-200	Front Panel Board	006-1271
	Control Board	006-1272
WC-1	Main Board	006-1636

Important Note:
PC Boards are not eligible for refunds or return credit.

Terms and Conditions of Sale

Supersedes All Previous Terms and Conditions of Sale

Printed November 2006

PRICING
All shipments are priced from published lists or written quotations. Prices do not include taxes.

Prices include standard domestic packaging. For shipments that may be exported, please contact your freight forwarder for any special packaging or documentation.

PRINTED PRICES
Check all prices before ordering. MK Products reserves the right to make changes to this price list at any time. The latest revisions to this price list are posted on our web site at www.mkproducts.com. These prices supersede all previously published price lists.

INVOICE TERMS AND DISCOUNTS
Terms are NET 30 Days based on prior credit approval.

Additional 2% discount for payment within 10 days from date of invoice.

Credit card purchases using Visa, MasterCard and American Express are accepted.

PAST DUE ACCOUNTS
Accounts not paid within 30 days are past due and subject to a finance charge of 1½% per month (annual percentage rate of 18%).

TELEPHONE ORDERS
Telephone orders are confirmed and are acknowledged immediately upon request. If changes are requested on any order placed, we cannot guarantee these changes without additional expense to the purchaser.

LABOR RATE
All labor is billed at $86.00 per hour.

REPAIRS/WARRANTY REPAIR
All repairs, Standard or Warranty, will be performed under the MK Products Repair & Warranty Repair Policy. Full terms and conditions of this policy are available by contacting MK Products via phone, fax or e-mail.

EDUCATIONAL DISCOUNT
An educational discount of 15% off list price is available on most equipment sold directly by MK Products to a non-profit educational institution. This discount is not to be combined with any other special offer.

Equipment not eligible for discount:

- Special product items, used or reconditioned equipment
- Replacement and consumable parts

This Educational Discount Policy supersedes all previous publications.

TRANSFER OF TITLE
All merchandise is sold F.O.B. MK Products Inc., Irvine, California. Title to the merchandise is transferred to the purchaser at the time the carrier accepts shipment. The purchaser must file any claims for loss or damage in transit with the carrier. Upon request, MK Products Inc., will issue tracers on any shipment considered "lost" by the purchaser.

MINIMUM BILLING
No minimum billing on all domestic orders - shipping and handling may be applied.

Minimum billing on all export orders is $100.00 NET.

CANCELLATION OF ORDERS
Except in the case of non-standard items, orders for standard items can be canceled without charge, provided notice is received at MK Products, Irvine, California, at least one week before scheduled delivery to the carrier.

In the case of non-standard items, the purchaser will be liable for full payment at the contract price for all finished units available prior to cancellation. Also, for all non-standard materials and components in semi-finished condition, the purchaser will be liable for our cost plus 15%.

RETURN GOODS POLICY
1. Only new, unused, saleable products and parts qualify for consideration for return to the factory for credit.
2. Return authorization must be obtained from MK Products, Irvine, California, **prior** to the shipment of any product, for **any** reason. We will issue to the customer a numbered "RGL" label which **must** be affixed to the outside of the package and a copy affixed to the returned product.
3. The customer **must** enclose with the shipment a copy of the original MK Products sales order invoice covering the returned goods.
4. Upon inspection and acceptance of the returned product, a restocking charge **will** be applied.

A credit will then be issued in the amount of the difference between the sales order invoice and the restocking charge. The restocking charges are as follows:

Time	Charge
0 - 30 days	15% or $35.00, whichever is greater
31 - 60 days	30%
61 - 90 days	50%

No returns accepted after 90 days.

5. All returns must be made freight prepaid.
6. Any items returned without authorization **will not be accepted.**
7. Any exceptions will be returned, freight collect.
8. PC Boards are not eligible for refund or return credit.

ORDER HANDLING
MK Products will make every effort to ship all sales orders within 2~3 working days for merchandise that is in stock.

For **PRIORITY** shipments, please have your purchase order in by **12:00pm Pacific Time** to qualify. Your priority order must ship by **NEXT DAY** delivery service. We will make every reasonable effort to ship priorities.

October 1, 2006

LIMITED WARRANTY

Effective October 1, 2006

This warranty supersedes all previous MK Products warranties and is exclusive, with no other guarantees or warranties expressed or implied.

LIMITED WARRANTY - MK Products Inc., Irvine, California warrants that all new and unused equipment furnished by MK Products is free from defects in workmanship and material as of the time and place of delivery by MK Products. No warranty is made by MK Products with respect to trade accessories or other items manufactured by others. Such trade accessories and other items are sold subject to the warranties of their respective manufacturers, if any.

MK Products' warranty does not apply to components having normal useful life of less than one (1) year, such as relay points, wire conduit, tungsten, and welding gun parts that come in contact with the welding wire, including gas cups, gas cup insulators, and contact tips where failure does not result from defect in workmanship or material.

MK Products shall, exclusively remedy the limited warranty or any duties with respect to the quality of goods, based upon the following options:

(1) repair
(2) replacement
(3) where authorized in writing by MK Products, the reasonable cost of repair or replacement at our Irvine, California plant.

As a matter of general policy only, MK Products may honor an original user's warranty claims on warranted equipment in the event of failure resulting from a defect within the following periods from the date of delivery of equipment to the original user:

1. **Power Supplies and Wire Feed Cabinets..... 3 years**
2. **Weldheads, Positioners, Prince XL and Prince XL Spool Guns, Python, CobraMAX, Cobra SX, Cobra MX.....1 year**
3. **Sidewinder® Spool Gun, Prince SG Spool Guns, Modules..... 180 days**
4. **Repairs/Exchanges/Parts ..... 90 days**

Classification of any item into the foregoing categories shall be at the sole discretion of MK Products. Notification of any failure must be made in writing within 30 days of such failure.

A copy of the invoice showing the date of sale must accompany products returned for warranty repair or replacement.

All equipment returned to MK Products for service must be properly packaged to guard against damage from shipping. MK Products will not be responsible for any damages resulting from shipping.

Normal surface transportation charges (one way) for products returned for warranty repair or replacement will be borne by MK Products, except for products sold to foreign markets.

ANY EXPRESS WARRANTY NOT PROVIDED HEREIN AND ANY IMPLIED WARRANTY, GUARANTY, OR REPRESENTATION AS TO PERFORMANCE, AND ANY REMEDY FOR BREACH OF CONTRACT WHICH, BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION, OPERATION OF LAW, CUSTOM OF TRADE, OR COURSE OF DEALING, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR PARTICULAR PURPOSE, WITH RESPECT TO ANY AND ALL EQUIPMENT FURNISHED BY MK PRODUCTS, IS EXCLUDED AND DISCLAIMED BY MK PRODUCTS.

EXCEPT AS EXPRESSLY PROVIDED BY MK PRODUCTS IN WRITING, MK's PRODUCTS ARE INTENDED FOR ULTIMATE PURCHASE BY COMMERCIAL/INDUSTRIAL USERS AND FOR OPERATION BY PERSONS TRAINED AND EXPERIENCED IN THE USE AND MAINTENANCE OF WELDING EQUIPMENT AND NOT FOR CONSUMERS OR CONSUMER USE. MK PRODUCTS' WARRANTIES DO NOT EXTEND TO, AND NO RE-SELLER IS AUTHORIZED TO EXTEND MK PRODUCTS' WARRANTIES TO ANY CONSUMER.

USE OF OTHER THAN *GENUINE* MK PRODUCTS' CONSUMABLES, PARTS, AND ACCESSORIES MAY INVALIDATE YOUR PRODUCT WARRANTY.

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Cobra® T-Shirt	Khaki	932-2965	Medium	$14.00
		932-2966	Large	
		932-2967	X-Large	
		932-2968	XX-Large	
		932-2969	XXX-Large	

Description	Color	Part Number	Size	Price
Cobra® T-Shirt	Green	932-2960	Medium	$14.00
		932-2961	Large	
		932-2962	X-Large	
		932-2963	XX-Large	
Cobra® Hat	Black	932-0010	One Size	$7.95

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Check Out Our New Web Site

MK Products' web site is now easier to use than ever! It has been completely rebuilt to better meet the needs of those who visit us on the Web.

You'll find a more dynamic home page, with fully searchable site content and expanded categories and information. All of our great services and resources are there but in a more user-oriented design. Additional resources and upgrades are in the works.

Cobra

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MK PRODUCTS